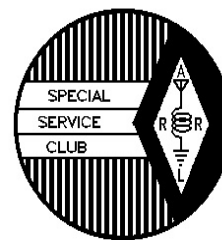




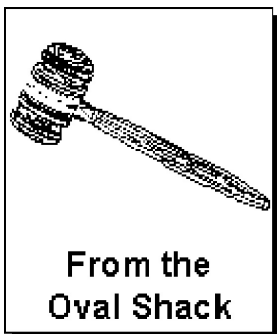
Watts News



Monthly Newsletter of the
Olympia Amateur Radio Society
P.O. Box 2861, Olympia, WA 98507

October 2011
email: oars@comcast.net

Edited by KB6LE (George Lanning) 360-438-5797
website: olyham.org



President's Message

Hello Everyone -

I hope you have been enjoying the transition to Autumn.

I had intended to mention the JOTA event in my greeting last month, but forgot about it and could

not think of anything to write about. Fortunately the JOTA article was included without me.

It is time to consider OARS officers for the next year. At last month's meeting, it was suggested that everyone run for office and give a short speech indicating why they should be elected to that office. It should make an interesting meeting. Please consider having a stint as an officer in the club.

One other item for consideration would be topic ideas for club meetings. Please think of what you would like to see in coming club meetings. Are there things you would like to have presentations on? How about things you yourself could give a presentation on? Ideas for either could be projects, problems needing troubleshooting, etc. Please email our VP, Tom [W7TAG] and myself with ideas.

73.

— Klaus [AC7MG]

— ... —

Communications Academy 2012 Call for Presentations

The Communications Academy is soliciting proposals for presentations for the 2012 Communications Academy, to be held April 14-15, 2012, at South Seattle Community College, Seattle, WA. The Communications Academy is open to anyone with an

interest in emergency communications, volunteer or professional. The presentations are designed to promote the development of knowledgeable, skilled emergency communicators who will support their local communities during a disaster or emergency response.

The Communications Academy Program Committee is seeking presentations on new ideas and practical solutions to the challenges facing today's emergency communicator, related to the 2012 Communications Academy theme: "Practical Solutions for Real Em-Comm Challenges"

Presentations or tutorial topics are encouraged around this theme, especially those which provide case studies and innova-

Watts Inside

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tive solutions for emergency communications challenges, applied to amateur and non-amateur radio emergency communications, radio communications technology, community hubs and CERT teams, emergency management, volunteer recruitment and training, and EmComm leadership. Demonstrations are also encouraged.

Proposals should include a brief abstract and outline of the presentation, along with a speaker bio, and are requested before January 15, 2012. Proposals should be sent via email to n7lsl@arrl.net. Submitters will be notified of the final program selection in early February, 2012. The Communications Academy Program Committee will make the final program selection.

Presentation Guidelines:

The presentations must fit into a 1 hour 15 minute timeslot, including time for a question and answer session. Any special audio-visual or demonstration requirements should be specified in the proposal.

Final presentations will be due April 10, 2012, and will be published on the CommAcademy web site and available on the CommAcademy proceedings available on CD. The presentation material should be in Microsoft PowerPoint using any template desired, and any supplemental handout material should be in PDF or WORD format.

License Exam Sessions

6:00 pm before each monthly OARS meeting
Walk-ins allowed
To apply contact Klaus Neubert 280-2428
oars-ve@comcast.net

For more information contact:

Marina Zuetell, N7LSL, Program Chair
PO Box 15624, Seattle, WA. 98115
Phone: 206-524-6567 E-mail: n7lsl@arrl.net



You Should Own a Weather Radio

Each September I make my pitch to the Ham Radio Community of Western Washington, to make sure you have a working Weather Radio in your home.

Throughout the United States, various alerts, for natural and civil emergencies — as well as AMBER Alerts — are broadcast over the National Weather Service Radio Network.

Why should you own a weather radio? Weather Radios offer two significant functions. First, they are designed to receive the NOAA Weather Radio (NWR) service's broadcast of weather status and forecasts, providing regular, around-the-clock weather information.

Second, they are designed to respond to the FCC's Emergency Alert System (EAS), which has replaced the older Emergency Broadcast System (EBS), and the alert signals sent by the NOAA Weather Radio service.

When the weather radio receives an alert signal, it will respond with an audible alarm to attract attention. Many of our weather radios also provide a display that indicates what type of alert is being sent. This allows the user to be alerted to any dangerous situation as soon as possible.

Additionally, there are the portable weather radios, which have long provided campers, hikers and other travelers with peace of mind and the ready ability to check on the current weather status.

Please consider purchasing a Weather Radio for your home. Also please ask your local repeater

OARS OFFICERS FOR 2011

President	Klaus Neubert	AC7MG	280-2428
Vice President	Tom Gibb	W7TAG	970-6312
Secretary	Paul Taylor	KC7LA	866-0683
Treasurer	Ed Fitzgerald	N7WW	491-2289
Member at Large	Mark Dempsey	KB7JTU	943-0165

KEY CONTACTS

RFI Committee	Ghery Pettit	N6TPT	412-1340
Repeater Committee	Larry Watkinson	KC7CKO	943-4352
Club License Trustee	Duane Braford	WB7ROZ	412-1902
Information Net	Duane Braford	WB7ROZ	412-1902
ARES Net	Tom Bohon	KE7EJJ	456-6260
Web Site	George Lanning	KB6LE	438-5797
Newsletter	George Lanning	KB6LE	438-5797
Classes	Lee Chambers	KI7SS	951-2538
License Exams	Klaus Neubert	AC7MG	280-2428
Equip. Custodian	Larry Watkinson	KC7CKO	943-4352

REPEATERS: 147.36 MHz 224.46 MHz 441.40 MHz

Membership is open to all interested radio amateurs.
Yearly dues are: \$20 for individual, \$25 for family.

owner/operator to consider installing Weather Radio on their system.

73 and Good Hamming

— Jim Pace K7CEX, ARRL Western Washington Section Manager, k7cex@arrl.org

— ... —

Teenage Wisdom

The following questions were set in last year's GED examination. These are genuine answers (from 16 year olds).....and they WILL breed.

- Q. Name the four seasons
A. Salt, pepper, mustard and vinegar
- Q. Explain one of the processes by which water can be made safe to drink
A. Flirtation makes water safe to drink because it removes large pollutants like grit, sand, dead sheep and canoeists
- Q. How is dew formed?
A. The sun shines down on the leaves and makes them perspire
- Q. What causes the tides in the oceans?
A. The tides are a fight between the earth and the moon. All water tends to flow towards the moon, because there is no water on the moon, and nature abhors a vacuum. I forget where the sun joins the fight.
- Q. What guarantees may a mortgage company insist on?
A. If you are buying a house they will insist that you are well endowed
- Q. In a democratic society, how important are elections?
A. Very important. Sex can only happen when a male gets an election
- Q. What are steroids
A. Things for keeping carpets still on the stairs
- Q. What happens to your body as you age?
A. When you get old, so do your bowels and you get intercontinental
- Q. What happens to a boy when he reaches puberty
A. He says goodbye to his boyhood and looks forward to his adultery (So true)
- Q. Name a major disease associated with cigarettes
A. Premature death
- Q. What is artificial insemination?
A. When the farmer does it to the bull instead of the cow
- Q. How can you delay milk turning sour?
A. Keep it in the cow (Simple, but brilliant)
- Q. How are the main 20 parts of the body categorized (e.g. the abdomen)?
A. The body is consisted into 3 parts - the brainium, the borax and the abdominal cavity. The brainium contains the brain, the borax contains the heart and lungs and the abdominal cavity contains the five bowels: A, E, I, O, U
- Q. What is the fibula?
A. A small lie
- Q. What does 'varicose' mean?
A. Nearby
- Q. What is the most common form of birth control?
A. Most people prevent contraception by wearing a condominium (That would work)
- Q. Give the meaning of the term 'Caesarean section'
A. The caesarean section is a district in Rome
- Q. What is a seizure?
A. A Roman Emperor. (Julius Seizure, I came, I saw, I had a fit)
- Q. What is a terminal illness?
A. When you are sick at the airport. (Irrefutable)
- Q. Give an example of a fungus. What is a characteristic feature?
A. Mushrooms. They always grow in damp places and they look like umbrellas
- Q. Use the word 'judicious' in a sentence to show you understand its meaning

- A. Hands that judicious can be soft as your face.
- Q. What does the word 'benign' mean?
- A. Benign is what you will be after you be eight (brilliant)
- Q. What is a turbine?
- A. Something an Arab or Shreik wears on his head.

— thanks to Judi Koehn



Treasurer's Report

As of 9/30/2011

GENERAL FUND (checking account)

Previous balance.	\$ 2,611.43
Income.	0.00
Expenses.	82.88
Ending balance.	2,528.55

REPEATER / PACKET FUND (savings account)

Previous balance.	\$ 1,041.14
Income.	1.33
Expenses.	0.00
Ending balance.	1,042.47

— Ed Fitzgerald, N7WW, Treasurer



Be Careful What You Wish For

Married couples, both 60 years old, were celebrating their 35th anniversary. During their party, a fairy appeared to congratulate them and grant them each one wish.

The wife wanted to travel around the world. The fairy waved her wand and poof -- the wife had tickets in her hand for a world cruise.

Next, the fairy asked the husband what he wanted. He said, "I wish I had a wife 30 years

younger than me." So the fairy picked up her wand and poof -- the husband was 90.

— from *ajokeaday.com*



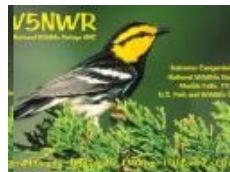
Radio Amateurs Take to the Air to Support National Wildlife Refuge Week

09/19/2011

Amateur Radio operators will be on the air in observance of the 2011 National Wildlife Refuge Week, October 8-16. This event will coincide with festivals and special events at refuges that help connect people with nature at the country's more than 500 National Wildlife Refuges.

Radio amateurs are helping spread the word about the National Wildlife Refuge System by operating from refuges during National Wildlife Refuge Week. This event is a chance to combine Amateur Radio's communication capabilities with enjoyment of the outdoors, while helping others learn about the National Wildlife Refuge System (NWRS).

Hams will highlight refuge features, wildlife and geography when making contact with other stations across North America. Operators will make contact using SSB, CW and various digital modes, including RTTY and PSK31.



If you would like to participate in National Wildlife Refuge Week, please review the rules and other information available here and formulate a proposal for the manager of the refuge you intend to activate. You will then need to obtain permission from the refuge manager to operate within the refuge. After you have permission, submit your operating plan to have your operation listed on the National Wildlife Refuge Week website. Only those stations that have authorized, responsible access to refuges are sanctioned by this event. So far, stations in almost 30 National Wildlife Refuges in 20 states -- from Alaska to Wisconsin -- have signed on to the event.

Visit the National Wildlife Refuge Week Ham Radio website for more information and a list of participating ham radio stations.



Stanford University Researchers Announce Sunspot Breakthrough

Imagine forecasting a hurricane in Miami weeks before the storm was even a swirl of clouds off the coast of Africa -- or predicting a tornado in Kansas from the flutter of a butterfly's wing in Texas. These are the kind of forecasts meteorologists can only dream about. Could the dream come true? A new study by Stanford University researchers suggests that such forecasts may one day be possible -- not on Earth, but on the Sun. In the August 19 issue of *Science*, Stathis Ilonidis, together with co-workers Junwei Zhao and Alexander Kosovichev, announced that they can see some sunspots while they are still submerged, before they are visible to the naked eye. "This could lead to significant advances in space weather forecasting," Ilonidis said.

Most Amateur Radio operators are aware of sunspots, those dark blemishes on the surface of the Sun. This is because sunspots influence propagation. They can be a boon to hams interested in HF propagation, as sunspots are the sites of ultraviolet or extreme ultraviolet radiation that creates our ionosphere. But sunspots can also be destructive. They are the source for disturbances, such as flares, and the roots of coronal mass ejections (CMEs) that can hinder propagation. When a CME hits the Earth's atmosphere, the low bands will be depressed and signals will be weaker the lower the frequency. The absorption rate will be most severe on 160 meters, less on 80 and somewhat better on 40 meters. The maximum usable frequency (MUF) -- the highest frequency by which a radio wave can propagate between given terminals by ionospheric propagation alone, independent of power -- will be lower and auroral propagation on the VHF bands is quite possible.

"Astronomers have been studying sunspots for more than 400 years, and they have pieced together their basic characteristics: Sunspots are planet-sized islands of magnetism that float in solar plasma," explained NASA's Tony Phillips. "Although the details are still debated, researchers generally agree that sunspots are born deep inside the Sun via the action of the Sun's inner magnetic dynamo. From there, they bob to the

top, carried upward by magnetic buoyancy; a sunspot emerging at the stellar surface is a bit like a submarine emerging from the ocean depths."

Phillips explained that the trio's analysis technique, called "time-distance helioseismology," is similar to an approach widely used in earthquake studies: "Just as seismic waves traveling through the body of Earth reveal what is inside the planet, acoustic waves traveling through the body of the Sun can reveal what is inside the star. Fortunately for helioseismologists, the Sun has acoustic waves in abundance. The body of the Sun is literally roaring with turbulent boiling motions." This sets the stage for early detection of sunspots.

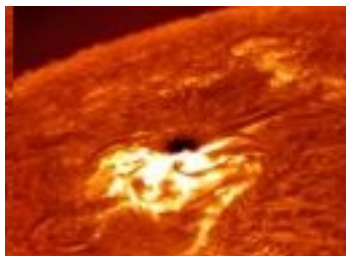
Instruments onboard two spacecraft -- the Solar and Heliospheric Observatory (SOHO) and the newer Solar Dynamics Observatory (SDO) -- constantly monitor the Sun for acoustic activity. Submerged sunspots have a detectable effect on the Sun's inner acoustics -- namely, sound waves travel faster through a sunspot than through the surrounding plasma. A big sunspot can leapfrog an acoustic wave by 12 to 16 seconds. "We can't actually hear these sounds across the gulf of space, but we can see the vibrations they make on the Sun's surface," Ilonidis told Phillips. "By measuring these time differences, we can find the hidden sunspot." Ilonidis cautioned that there are limits to the technique: "We can say that a big sunspot is coming, but we cannot yet predict if a particular sunspot will produce an Earth-directed flare."

According to Phillips, the technique seems to be most sensitive to sunspots located about 60,000 km beneath the Sun's surface. The team isn't sure why that is the "magic distance," but Phillips noted that it's a good distance because it gives the team as much as two days' advance notice that a spot is about to reach the surface.

"This is the first time anyone has been able to point to a blank patch of Sun and say 'a sunspot is about to appear right there,'" said Ilonidis' thesis advisor Dr. Phil Scherrer of the Stanford Physics

Department. "It's a big advance."

So far, Ilonidis, Zhao and Kosovichev have detected five emerging sunspots: four with SOHO and one



with SDO. Of those five, two went on to produce X-class flares, the most powerful kind of solar explosion. "This encourages the team to believe their technique can make a positive contribution to space weather forecasting," Phillips said. "Because helioseismology is computationally intensive, regular monitoring of the whole Sun is not yet possible, but Ilonidis believes that it is just a matter of time before refinements in their algorithm allow routine detection of hidden sunspots."

— Thanks to Dr. Tony Phillips for the information

— ... —

Tools Explained

DRILL PRESS: A tall upright machine useful for suddenly snatching flat metal bar stock out of your hands so that it smacks you in the chest and flings your beer across the room, denting the freshly-painted project which you had carefully set in the corner where nothing could get to it.

WIRE WHEEL: Cleans paint off bolts and then throws them somewhere under the workbench with the speed of light. Also removes fingerprints and hard-earned calluses from fingers in about the time it takes you to say, "Ouch!"

SKILL SAW: A portable cutting tool used to make studs too short.

PLIERS: Used to round off bolt heads. Sometimes used in the creation of blood-blisters.

BELT SANDER: An electric sanding tool commonly used to convert minor touch-up jobs into major refinishing jobs.

HACKSAW: One of a family of cutting tools built on the Ouija board principle... It transforms human energy into a crooked, unpredictable motion, and the more you attempt to influence its course, the more dismal your future becomes.

WISE-GRIPS: Generally used after pliers to completely round off bolt heads. If nothing else is available, they can also be used to transfer intense welding heat to the palm of your hand.

OXYACETYLENE TORCH: Used almost entirely for lighting various flammable objects in your shop on fire. Also handy for igniting the grease inside the wheel hub out of which you want to remove a bearing race..

TABLE SAW: A large stationary power tool commonly used to launch wood projectiles for testing wall integrity.

HYDRAULIC FLOOR JACK: Used for lowering an automobile to the ground after you have installed your new brake shoes, trapping the jack handle firmly under the bumper.

BAND SAW: A large stationary power saw primarily used by most shops to cut good aluminum sheet into smaller pieces that more easily fit into the trash can after you cut on the inside of the line instead of the outside edge.

TWO-TON ENGINE HOIST: A tool for testing the maximum tensile strength of everything you forgot to disconnect.

PHILLIPS SCREWDRIVER: Normally used to stab the vacuum seals under lids or for opening old-style paper-and-tin oil cans and splashing oil on your shirt; but can also be used, as the name implies, to strip out Phillips screw heads.

STRAIGHT SCREWDRIVER: A tool for opening paint cans. Sometimes used to convert common slotted screws into non-removable screws and butchering your palms.

PRY BAR: A tool used to crumple the metal surrounding that clip or bracket you needed to remove in order to replace a 50 cent part.

HOSE CUTTER: A tool used to make hoses too short.

HAMMER: Originally employed as a weapon of war, the hammer nowadays is used as a kind of divining rod to locate the most expensive parts adjacent the object we are trying to hit.

UTILITY KNIFE: Used to open and slice through the contents of cardboard cartons delivered to your front door; works particularly well on contents such as seats, vinyl records, liquids in plastic bottles, collector magazines, refund checks, and rubber or plastic parts. Especially useful for slicing work clothes, but only while in use..

Son of a *%! Tool: Any handy tool that you grab and throw across the garage while yelling "Son of a *%! " at the top of your lungs. It is also, most often, the next tool that you will need.

— from Klaus AC7MG

— ... —

ARRL Facebook Page: 20,000 Fans Strong

With more than 20,000 fans on Facebook, the ARRL Facebook page is the number one spot for hams on the Internet's most popular social networking site. Not only is the ARRL page the most popular Amateur Radio page on Facebook, it is attracting many young -- and not-so-young -- hams to share their opinions and ham radio-related news with other hams.

According to Facebook demographics, more than 460 people between the ages of 13-17 are fans of the ARRL's page, with 74 percent of users below the age of 55 (Facebook breaks down its statistics in age groups of 13-17, 18-24, 25-34, 35-44, 45-54 and 55+). Since September 2010, hundreds of users post their own comments on the page, make a comment on a post or "like" a comment each week. The ARRL has been active on Facebook since July 2010; since that time, the page has been viewed almost 14.5 million times by fans and non-fans alike. The ARRL also has a Logbook of the World Facebook page. Premiering in June 2011, this popular page has almost 1000 ham fans.

"We are excited to have such a strong presence on Facebook," said ARRL News Editor S. Khrystyne Keane, K1SFA, who serves as the Chief Administrator of the ARRL's Facebook pages. "Through our page, we try to showcase Amateur Radio fun by using interactive status updates, articles from the ARRL website and photos from events that are happening all around the world. Personally, I really enjoy seeing what other hams have to say about their love and enjoyment of Amateur Radio."

While US hams make up the vast majority of users on the League's Facebook pages, hams from all over the world -- including Indonesia, Italy, Canada, the United Kingdom, Malaysia, Spain, the Philippines, Germany, France, Greece, Turkey, Australia, Argentina, India, Norway, Belgium, Portugal and Brazil -- are active, too. "Facebook only gives us the top 20 countries represented that visit our page, but I know from personal interaction with hams that we have more than just those 20 countries visiting us every day," Keane explained. "We invite hams to 'like' the ARRL and the LoTW Facebook pages

and leave comments. Joining Facebook is free, and you just might be surprised at who you'll find on the site."

— from *The ARRL Letter*

— ... —

Remorse

Dear John,

I have been unable to sleep since I broke off our engagement. Won't you forgive and forget? Your absence is breaking my heart.

I was a fool, nobody can take your place. I love you.

All my love,

Belinda. xxxxxxxxxx

P.S. Congratulations on winning this week's lottery.

— from *ajokeaday.com*

— ... —

How to Save a Few Bucks

A young man was walking through a supermarket to pick up a few things when he noticed an old lady following him around. Thinking nothing of it, he ignored her and continued on. Finally he went to the checkout line, but she got in front of him. "Pardon me," she said, "I'm sorry if my staring at you has made you feel uncomfortable. It's just that you look just like my son, who just died recently."

"I'm very sorry," replied the young man, "is there anything I can do for you?" "Yes," she said, "As I'm leaving, can you say 'Goodbye, Mother'? It would make me feel so much better." "Sure," answered the young man.

As the old woman was leaving, he called out, "Goodbye, Mother!" As he stepped up to the checkout counter, he saw that his total was \$127.50. "How can that be?" He asked, "I only purchased a few things!" "Your mother said that you would pay for her," said the clerk.

— from *ajokeaday.com*

— ... —

November 2011 Contests

+ Ukrainian DX Contest	1200Z, Nov 5 to 1200Z, Nov 6
+ ARRL Sweepstakes Contest, CW	2100Z, Nov 5 to 0300Z, Nov 7
+ High Speed Club CW Contest	0900Z-1700Z, Nov 6
+ DARC 10-Meter Digital Contest	1100Z-1700Z, Nov 6
+ CWops Mini-CWT Test	1300Z-1400Z, Nov 9 and 1900Z-2000Z, Nov 9 and 0300Z-0400Z, Nov 10
+ RSGB 80m Club Sprint, SSB	2000Z-2130Z, Nov 9
+ WAE DX Contest, RTTY	0000Z, Nov 12 to 2359Z, Nov 13
+ 10-10 Int. Fall Contest, Digital	0001Z, Nov 12 to 2359Z, Nov 13
+ JIDX Phone Contest	0700Z, Nov 12 to 1300Z, Nov 13
+ OK/OM DX Contest, CW	1200Z, Nov 12 to 1200Z, Nov 13
+ CWops Mini-CWT Test	1300Z-1400Z, Nov 12 and 1900Z-2000Z, Nov 12 and 0300Z-0400Z, Nov 13
+ Kentucky QSO Party	1400Z, Nov 12 to 0200Z, Nov 13
+ CQ-WE Contest	1900Z, Nov 12 to 0500Z, Nov 14
+ SKCC Weekend Sprint	0000Z-2400Z, Nov 13
+ NAQCC-EU Monthly Sprint	1800Z-2000Z, Nov 14
+ NAQCC Straight Key/Bug Sprint	0130Z-0330Z, Nov 17
+ YO International PSK31 Contest	1600Z-2200Z, Nov 18
+ ARRL EME Contest	0000Z, Nov 19 to 2359Z, Nov 20
+ SARL Field Day Contest	1000Z, Nov 19 to 1000Z, Nov 20
+ LZ DX Contest	1200Z, Nov 19 to 1200Z, Nov 20
+ All Austrian 160-Meter Contest	1600Z, Nov 19 to 0700Z, Nov 20
+ Feld Hell Sprint	1600Z-1800Z, Nov 19
+ ARRL Sweepstakes Contest, SSB	2100Z, Nov 19 to 0300Z, Nov 21
+ RSGB 2nd 1.8 MHz Contest, CW	2100Z, Nov 19 to 0100Z, Nov 20
+ EPC PSK63 QSO Party	0000Z-2400Z, Nov 20
+ Run for the Bacon QRP Contest	0200Z-0400Z, Nov 21
+ SKCC Sprint	0000Z-0200Z, Nov 23
+ CWops Mini-CWT Test	1300Z-1400Z, Nov 23 and 1900Z-2000Z, Nov 23 and 0300Z-0400Z, Nov 24
+ RSGB 80m Club Sprint, CW	2000Z-2130Z, Nov 24
+ CQ Worldwide DX Contest, CW	0000Z, Nov 26 to 2400Z, Nov 27
+ SARL Digital Contest	1300Z-1600Z, Nov 27

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Olympia Amateur Radio Society

[Calendars Net](#)

Home events for the Olympia Washington area -- Maintained by KB6LE

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November 2011

Sunday		Monday	Tuesday		Wednesday	Thursday	Friday	Saturday
<u>30</u>	<u>Oct</u>	<u>31</u>	<u>1</u>	<u>Nov</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
			7:00p ARES Net 7:30p OARS Net				Watts News Deadline	
<u>6</u>	<u>7</u>	<u>8</u>	7:00p ARES Net 7:30p OARS Net	<u>9</u>	<u>10</u>	7:00p ARES Meeting	<u>11</u>	<u>12</u>
<u>13</u>	<u>14</u>	<u>15</u>	7:00p ARES Net 7:30p OARS Net	<u>16</u>	7:00p -9:00p OARS General Meeting	<u>17</u>	<u>18</u>	<u>19</u>
<u>20</u>	<u>21</u>	<u>22</u>	7:00p ARES Net 7:30p OARS Net	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	
<u>27</u>	<u>28</u>	<u>29</u>	7:00p ARES Net 7:30p OARS Net	<u>30</u>	<u>1</u>	Dec	<u>2</u>	<u>3</u>
							Watts News Deadline	

OARS Membership Application

New Date _____
 Renewal ARRL member ? _____
Call Sign _____ License class _____
Name _____
Address _____
City, St. _____ ZIP _____
Home phone _____
Day phone _____
Email _____

Annual Dues: \$20 (\$25 family) — first year prorated by number of months.

If family membership, please attach above information for each family member.

Send to: OARS
PO Box 2861
Olympia, WA 98507

O A R S Meeting

Wednesday, Oct. 19, 2011, 7 PM

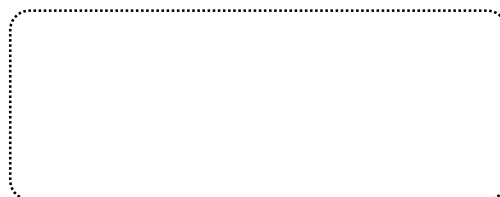
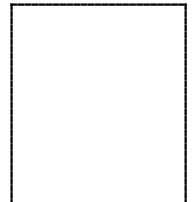
“Election of Officers”

Red Cross Building
2618 12th Court SW, Olympia

An Invitation

If you are a Ham who has received this newsletter, but are not yet a member of OARS, you are cordially invited to join us. Submit the membership application at the left to OARS at PO Box 2861, Olympia WA 98507, or bring it to an OARS meeting and see Treasurer Ed Fitzgerald.

OARS
PO BOX 2861
OLYMPIA WA 98507



If the date on your address label is marked in red, it is time to renew!